



RAW SEQUENCE LISTING

DATE: 06/03/2002

PATENT APPLICATION: US/09/359,975

TIME: 10:35:39

Input Set : N:\Crf3\RULE60\09359975.raw

Output Set: N:\CRF3\06032002\I359975.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: Weiner, David B.

6 Williams, William V.

7 Wang, Bin

9 (ii) TITLE OF INVENTION: Compositions and Methods for Delivery of
10 Genetic Material

13 (iii) NUMBER OF SEQUENCES: 52

15 (iv) CORRESPONDENCE ADDRESS:

16 (A) ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & Norris

17 (B) STREET: One Liberty Place 46th Floor

18 (C) CITY: Philadelphia

19 (D) STATE: Pennsylvania

20 (E) COUNTRY: USA

21 (F) ZIP: 19103

23 (v) COMPUTER READABLE FORM:

24 (A) MEDIUM TYPE: Floppy disk

25 (B) COMPUTER: IBM PC compatible

26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25 mb-MD/JAF

29 (vi) CURRENT APPLICATION DATA:

C--> 30 (A) APPLICATION NUMBER: US/09/359,975

C--> 31 (B) FILING DATE: 23-Jul-1999

32 (C) CLASSIFICATION:

64 (vii) PRIOR APPLICATION DATA:

36 (A) APPLICATION NUMBER: US/08/979,385B

37 (B) FILING DATE: 26-NOV-1997

41 (A) APPLICATION NUMBER: US 08/495,684

42 (B) FILING DATE: 28-SEP-1995

45 (A) APPLICATION NUMBER: PCT/US94/00899

46 (B) FILING DATE: 26-JAN-1994

49 (A) APPLICATION NUMBER: 08/125,012

50 (B) FILING DATE: 21-SEP-1993

53 (A) APPLICATION NUMBER: 08/124,962

54 (B) FILING DATE: 21-SEP-1993

57 (A) APPLICATION NUMBER: 08/093,235

58 (B) FILING DATE: 15-JUL-1993

61 (A) APPLICATION NUMBER: 08/029,336

62 (B) FILING DATE: 11-MAR-1993

65 (A) APPLICATION NUMBER: 08/008,342

66 (B) FILING DATE: 26-JAN-1993

68 (viii) ATTORNEY/AGENT INFORMATION:

69 (A) NAME: DeLuca, Mark

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70          (B) REGISTRATION NUMBER: 33,229
71          (C) REFERENCE/DOCKET NUMBER: UPAP-0253
73      (ix) TELECOMMUNICATION INFORMATION:
74          (A) TELEPHONE: 215-568-3100
75          (B) TELEFAX: 215-568-3429
78 (2) INFORMATION FOR SEQ ID NO: 1:
80      (i) SEQUENCE CHARACTERISTICS:
81          (A) LENGTH: 32 base pairs
82          (B) TYPE: nucleic acid
83          (C) STRANDEDNESS: single
84          (D) TOPOLOGY: linear
W--> 86      (ii) MOLECULE TYPE: DNA
88      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
90      AGGCGTCTCG AGACAGAGGA GAGCAAGAAA TG          32
93 (2) INFORMATION FOR SEQ ID NO: 2:
95      (i) SEQUENCE CHARACTERISTICS:
96          (A) LENGTH: 30 base pairs
97          (B) TYPE: nucleic acid
98          (C) STRANDEDNESS: single
99          (D) TOPOLOGY: linear
W--> 101     (ii) MOLECULE TYPE: DNA
103     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
105     TTCCCTCTA GATAAGCCAT CCAATCACAC          30
108 (2) INFORMATION FOR SEQ ID NO: 3:
110     (i) SEQUENCE CHARACTERISTICS:
111         (A) LENGTH: 29 base pairs
112         (B) TYPE: nucleic acid
113         (C) STRANDEDNESS: single
114         (D) TOPOLOGY: linear
W--> 116     (ii) MOLECULE TYPE: DNA
118     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
120     GAAGGATCCA TGAAAAAATA TTTATTGGG          29
123 (2) INFORMATION FOR SEQ ID NO: 4:
125     (i) SEQUENCE CHARACTERISTICS:
126         (A) LENGTH: 30 base pairs
127         (B) TYPE: nucleic acid
128         (C) STRANDEDNESS: single
129         (D) TOPOLOGY: linear
W--> 131     (ii) MOLECULE TYPE: DNA
133     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
135     ACTGTCGACT TATTTTAAAG CGTTTTTAAG          30
138 (2) INFORMATION FOR SEQ ID NO: 5:
140     (i) SEQUENCE CHARACTERISTICS:
141         (A) LENGTH: 30 base pairs
142         (B) TYPE: nucleic acid
143         (C) STRANDEDNESS: single
144         (D) TOPOLOGY: linear
W--> 146     (ii) MOLECULE TYPE: DNA
148     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

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150      GCCAGTTTTG GATCCTTAAA AAAGGCTTGG                      30
153 (2) INFORMATION FOR SEQ ID NO: 6:
155      (i) SEQUENCE CHARACTERISTICS:
156          (A) LENGTH: 27 base pairs
157          (B) TYPE: nucleic acid
158          (C) STRANDEDNESS: single
159          (D) TOPOLOGY: linear
W--> 161      (ii) MOLECULE TYPE: DNA
163      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
165      TTGTGAGGGA CAGAATTCCA ATCAGGG                      27
168 (2) INFORMATION FOR SEQ ID NO: 7:
170      (i) SEQUENCE CHARACTERISTICS:
171          (A) LENGTH: 24 base pairs
172          (B) TYPE: nucleic acid
173          (C) STRANDEDNESS: single
174          (D) TOPOLOGY: linear
W--> 176      (ii) MOLECULE TYPE: DNA
178      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
180      CAGTGATATC CCGGGAGACT CCTC                      24
183 (2) INFORMATION FOR SEQ ID NO: 8:
185      (i) SEQUENCE CHARACTERISTICS:
186          (A) LENGTH: 25 base pairs
187          (B) TYPE: nucleic acid
188          (C) STRANDEDNESS: single
189          (D) TOPOLOGY: linear
W--> 191      (ii) MOLECULE TYPE: DNA
193      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
195      GAATAGAAGA ACTCCTCTAG AATTC                      25
198 (2) INFORMATION FOR SEQ ID NO: 9:
200      (i) SEQUENCE CHARACTERISTICS:
201          (A) LENGTH: 27 base pairs
202          (B) TYPE: nucleic acid
203          (C) STRANDEDNESS: single
204          (D) TOPOLOGY: linear
W--> 206      (ii) MOLECULE TYPE: DNA
208      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
210      GCCTTAGGCG GATCCTATGG CAGGAAG                      27
213 (2) INFORMATION FOR SEQ ID NO: 10:
215      (i) SEQUENCE CHARACTERISTICS:
216          (A) LENGTH: 24 base pairs
217          (B) TYPE: nucleic acid
218          (C) STRANDEDNESS: single
219          (D) TOPOLOGY: linear
W--> 221      (ii) MOLECULE TYPE: DNA
223      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
225      TAAGATGGGT GGCCATGGTG AATT                      24
229 (2) INFORMATION FOR SEQ ID NO: 11:
231      (i) SEQUENCE CHARACTERISTICS:
232          (A) LENGTH: 22 amino acids

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233         (B) TYPE: amino acid
234         (D) TOPOLOGY: linear
236         (ii) MOLECULE TYPE: peptide
238         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
240     Cys Asn Thr Arg Lys Arg Ile Arg Ile Gln Arg Gly Pro Gly Arg Ala
241         1         5         10         15
243     Phe Val Thr Ile Gly Lys
244         20
247 (2) INFORMATION FOR SEQ ID NO: 12:
249     (i) SEQUENCE CHARACTERISTICS:
250         (A) LENGTH: 25 amino acids
251         (B) TYPE: amino acid
252         (D) TOPOLOGY: linear
254         (ii) MOLECULE TYPE: peptide
256         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
258     Tyr Asn Lys Arg Lys Arg Ile His Ile Gln Arg Gly Pro Gly Arg Ala
259         1         5         10         15
261     Phe Tyr Thr Thr Lys Asn Ile Ile Cys
262         20         25
266 (2) INFORMATION FOR SEQ ID NO: 13:
268     (i) SEQUENCE CHARACTERISTICS:
269         (A) LENGTH: 27 amino acids
270         (B) TYPE: amino acid
271         (D) TOPOLOGY: linear
273         (ii) MOLECULE TYPE: peptide
275         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
277     Cys Arg Ile Lys Gln Phe Ile Asn Met Trp Gln Glu Val Gly Lys Ala
278         1         5         10         15
280     Met Thr Ala Pro Pro Ile Ser Gly Ile Arg Cys
281         20         25
284 (2) INFORMATION FOR SEQ ID NO: 14:
286     (i) SEQUENCE CHARACTERISTICS:
287         (A) LENGTH: 26 amino acids
288         (B) TYPE: amino acid
289         (D) TOPOLOGY: linear
291         (ii) MOLECULE TYPE: peptide
293         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
295     Arg Ile Leu Ala Val Glu Arg Tyr Ile Lys Asp Gln Gln Leu Leu Gly Ile
296         1         5         10         15
298     Trp Gly Cys Ser Gly Lys Leu Ile Cys
299         20         25
303 (2) INFORMATION FOR SEQ ID NO: 15:
305     (i) SEQUENCE CHARACTERISTICS:
306         (A) LENGTH: 27 base pairs
307         (B) TYPE: nucleic acid
308         (C) STRANDEDNESS: single
309         (D) TOPOLOGY: linear
W--> 311     (ii) MOLECULE TYPE: DNA
313     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

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316      TTGTTTAACT TTTGATCGAT CCATTCC                                27
319 (2) INFORMATION FOR SEQ ID NO: 16:
321      (i) SEQUENCE CHARACTERISTICS:
322          (A) LENGTH: 21 base pairs
323          (B) TYPE: nucleic acid
324          (C) STRANDEDNESS: single
325          (D) TOPOLOGY: linear
W--> 327      (ii) MOLECULE TYPE: DNA
329          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
332      GATTTGTATC GATGATCTGA C                                    21
336 (2) INFORMATION FOR SEQ ID NO: 17:
338      (i) SEQUENCE CHARACTERISTICS:
339          (A) LENGTH: 25 base pairs
340          (B) TYPE: nucleic acid
341          (C) STRANDEDNESS: single
342          (D) TOPOLOGY: linear
W--> 344      (ii) MOLECULE TYPE: DNA
346          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
349      TGTAGTAGCA AAAGAAATAG TTAAG                                25
352 (2) INFORMATION FOR SEQ ID NO: 18:
354      (i) SEQUENCE CHARACTERISTICS:
355          (A) LENGTH: 25 base pairs
356          (B) TYPE: nucleic acid
357          (C) STRANDEDNESS: single
358          (D) TOPOLOGY: linear
W--> 360      (ii) MOLECULE TYPE: DNA
362          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
366      AATTCTTAAC TATTTCTTTT GCTAC                                25
370 (2) INFORMATION FOR SEQ ID NO: 19:
372      (i) SEQUENCE CHARACTERISTICS:
373          (A) LENGTH: 40 base pairs
374          (B) TYPE: nucleic acid
375          (C) STRANDEDNESS: single
376          (D) TOPOLOGY: linear
W--> 378      (ii) MOLECULE TYPE: DNA
380          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
383      ATTTGTCGAC TGGTTTCAGC CTGCCATGGC AGGAAGAAGC                40
387 (2) INFORMATION FOR SEQ ID NO: 20:
389      (i) SEQUENCE CHARACTERISTICS:
390          (A) LENGTH: 29 base pairs
391          (B) TYPE: nucleic acid
392          (C) STRANDEDNESS: single
393          (D) TOPOLOGY: linear
W--> 395      (ii) MOLECULE TYPE: DNA
397          (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
400      ACGACGCGTA TTCTTTAGCT CCTGACTCC                            29
403 (2) INFORMATION FOR SEQ ID NO: 21:
405      (i) SEQUENCE CHARACTERISTICS:
406          (A) LENGTH: 24 base pairs

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VERIFICATION SUMMARY

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Input Set : N:\CrF3\RULE60\09359975.raw

Output Set: N:\CRF3\06032002\I359975.raw

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L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
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L:206 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=9
L:221 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=10
L:311 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=15
L:327 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=16
L:344 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=17
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L:445 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=23
L:462 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=24
L:478 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=25
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Output Set: N:\CRF3\06032002\I359975.raw

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